

Resources

- *DCSD Librarians Teach 21st Century Skill for a World Class Education*. Douglas County School District.
- Erickson, H.L. *Stirring the Head, Heart, and Soul: Redefining Curriculum and Instruction*, 3rd ed. Thousand Oaks, CO: Corwin, Press, Inc. 2008.
- *ISTE Nets for Students: International Society for Technology in Education, National Education Technology Standards for Students*. <http://www.iste.org/standards-nets-for-students.aspx>
- *P21 Common Core Toolkit: A Guide to Aligning the Common Core Standards with the Framework for 21st Century Skills*. <http://www.p21.org/storage/documents/P21CommonCoreToolkit.pdf>
- *Survive and Thrive: An Advocacy Kit for School Librarians*. 21st Century Skills Taglines. Colorado Association of School Libraries. <https://sites.google.com/site/caslsurvive/>

21st century Skills means shifting from a two- dimensional curriculum design to a three-dimensional design (H.L. Erickson, 2008).

Traditional Curriculum = 2 Dimensional	21st Century Curriculum = 3 Dimensional
Coverage Centered	Idea Centered
Topic-Based	Concept-Based
<p>Example:</p> <p>“We will learn important facts and dates about the American Civil War.”</p> <p><i>Intellectually Shallow</i></p>	<p>Example:</p> <p>“Through the study of the American Civil War, we will learn about patterns of conflict/change over time and across nations.</p> <p><i>Intellectual Depth</i></p>

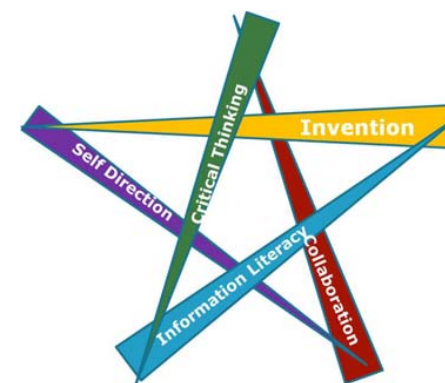


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Colorado Standards 21st Century Skills: Transformative Teaching



Critical Thinking

Think Deep, Think Differently

Collaboration

Work Together, Learn Together

Information Literacy

Untangle the Web

Invention

Create Solutions

Self Direction

Own Your Learning

Critical Thinking

Think Deep, Think Differently

Students analyze information, solve problems, and create new knowledge.

Example: After reading current teen literature to explore social issues, student teams choose one social issue and research it using nonfiction text. Students use digital media to create a social awareness advertisement (DCSD, 2012).



Collaboration

Work Together, Learn Together

Students communicate and work collaboratively to support learning and contribute to the learning of others.

Example: Student teams share their evaluation criteria for various projects with one another using Google forms and/or Google comments (DCSD, 2012).

Information Literacy

Untangle the Web

Students use tools to gather and evaluate information to determine validity and reliability.

Example: Student teams use reliability/validity criteria to recommend web sites for a class research project. Class/teacher determines if recommended web sites should be uploaded to teacher web page for access for research project use (DCSD, 2012).

Invention

Create Solutions

Students assess real-world problems and invent new solutions. A focus on creativity is essential to prepare students for the future.

Example:

Students create cyber-bullying podcasts for teacher use (DCSD, 2012).

Self Direction

Own Your Learning

Students set goals, organize their assignments and manage their academic time to develop a strong, balanced work ethic.

Example:

Students develop professional e-portfolios and organize their learning using Google Apps (DCSD, 2012).

21st century Shifts in Teaching Practice

- Designing lessons that foster student collaboration
- Developing lessons and units that are purposeful and encourage student-led inquiry and critical thinking skills
- Move from “teacher as lecturer” to “teacher as facilitator”
- Designing lessons around concepts rather than on content and looking for integrated opportunities for teaching

Suggestions in Planning for Professional Learning Shifts

- Develop teacher learning communities
- Provide structure and coaching so that educators can practice collaborating and backwards planning
- Provide guidance on concept-based (as opposed to content-driven) instruction

